

IN THE SPECIFICATION:

Please AMEND the Specification as shown below.

-- [0039] FIG. 1 shows schematically, as an example, a part of a communication system 100 with which embodiments of the invention can be used. The multicarrier modulation transmitting device 110 may be, for example, a base station of a cellular communication system or a network element of any wireless communication system. The multicarrier modulation transmitting device 110 may have one transmitter antenna or, a plurality of transmitter antennas. Similarly, the multicarrier modulation transmitting device 110 may have one or more than one transmitters. The user equipment--~~120~~ 120a and 120b, which may be referred to simply as 120 may be a terminal capable of communicating with the cellular communication system or with any other wireless communication system. The user equipment 120 illustrated in FIG. 1 has one receiving antenna, but in general it is possible that a user equipment has more than one receiving antenna. The user equipment may have one or more than one receivers. The invention is applicable in any device, which employ multicarrier modulation. If the invention is applied in a cellular communications system, the allocation of subcarriers typically takes place in a control network element 130 responsible for the control of the radio resources.

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-- [0042] The MIMO system 200 comprises a multicarrier modulation transmitting device 210 and, by the way of an example, two receiving devices 220. The multicarrier modulation transmitting device 210 comprises a plurality of transmission antennas--~~211~~ 211a and 211b, and each receiving device--~~220~~ 220a and 220b, which may be referred to simply as 220, comprises a plurality of receiving antennas--~~221~~ 221a and 221b for receiving device 220a, and, 221c and 221d for receiving device 220b, respectively. --

-- [0091] The multicarrier modulation communication device may be configured to receive at least one signal relating to at least one set of sequential subcarriers allocated to a user corresponding to the device from a signal relating to a plurality of sets of sequential subcarriers allocated to a plurality of users in an allocation period. Alternatively, a multicarrier modulation communications device or a controller in such a device may be configured to receive signals from a plurality of users using a plurality of sets of sequential subcarriers allocated to the plurality of users in an allocation period. FIG. 1 shows controllers--~~121~~ 121a and 121b in user equipment devices--~~121~~ 120a and 120b, respectively, and FIG. 2 shows controllers--~~222~~ 222a and 222b in receiving devices ~~220~~ 220a and 220b. --